



## State of New Jersey

### DEPARTMENT OF ENVIRONMENTAL PROTECTION

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# 2013 Zero Emission Vehicle Credits

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To provide greater transparency to interested stakeholders, production data beginning in model year 2009 and credit balances in 2013 are now publicly available as per section 1962.1(I), which NJ adopted by reference.

## Manufacturer Volume Status

The ZEV regulation requires large volume and intermediate volume manufacturers to bring to and operate in New Jersey a certain percent of ZEVs (such as battery electric and fuel cell vehicles), clean plug-in hybrids, clean hybrids and clean gasoline vehicles with near-zero tail pipe emissions. The table below lists the 2013 Vehicle Manufacturers subject to the ZEV Requirements.

2009 Manufacturer Volume Status	
Large Volume	Intermediate Volume
Chrysler Group	BMW
Ford	Hyundai
GM	Kia
Honda	Land Rover
Nissan	Mazda
Toyota	Mercedes Benz
	Subaru
	Volkswagen
	Volvo

## Manufacturer Requirement

A vehicle manufacturer's ZEV requirement is based on a percentage of all passenger cars and light-duty trucks from 0 to 8500 lbs, brought to and operated in New Jersey.

The table below is the 2013 New Jersey vehicle production of Large Volume and Intermediate Volume Manufacturers.

<b>Large and Intermediate Volume Manufacturer 2013 Vehicles Delivered for Sale in New Jersey</b>	
<b>Manufacturer</b>	<b>Passenger Cars and LDT</b>
BMW	31,961
Chrysler Group	39,382
Ford	72,565
FUJI Heavy Industries/Subaru	13,441
General Motors	61,945
Honda	87,853
Hyundai	58,138
Kia	24,272
Land Rover	5,131
Mazda	10,432
Mercedes Benz	25,679
Nissan	57,275
Toyota	85,432
Volkswagen	32,097
Volvo	8,310
<b>TOTAL</b>	<b>613,913</b>

LDT = light duty truck 0 -8500 lbs

## Manufacturer Credit Balances

In complying with the ZEV regulation, manufacturers deliver vehicles in NJ which generate varying credits based on vehicle type. There are also other parties generating credits that do not have ZEV requirements. The table below lists the credit balances as end of 2013 model year. The credits are in units of grams per mile Non-Methane Organic Gases (g/mi NMOG).

<b>Manufacturer</b>	<b>ZEVs (excluding NEVs)</b>	<b>NEVs</b>	<b>TZEVs</b>	<b>AT PZEVs</b>	<b>PZEVs</b>
BMW	158.516	0.000	0.000	0.000	32.224
Chrysler Group	217.997	87.566	0.000	0.000	0.000
CODA	0.000	0.000	0.000	0.000	0.000
Ford	102.029	403.215	23.801	246.473	288.995
FUJI Heavy Industries/Subaru	0.000	0.000	0.000	0.000	235.389
General Motors	260.388	233.170	92.001	300.780	226.976
Honda	268.389	330.493	133.754	120.586	352.904
Hyundai	25.760	0.000	0.000	16.825	285.308
Kia	27.010	0.000	0.000	12.878	80.672
Jaguar Land Rover	13.090	0.000	0.000	0.000	0.000
Mazda	0.000	0.000	0.000	0.000	81.375
Mercedes Benz	79.230	142.044	0.000	.0462	126.529
Mitsubishi	0.620	0.000	0.000	0.000	116.566
Nissan	715.256	0.000	0.000	0.000	351.117
Tesla	0.000	0.000	0.000	0.000	0.000
Toyota	121.696	61.682	431.563	1815.691	334.708
Volkswagen	65.286	0.000	0.000	4.062	50.967
Volvo	0.000	0.000	0.000	0.000	66.933
<b>TOTALS</b>	<b>2,517.295</b>	<b>1,258.170</b>	<b>681.119</b>	<b>2,517.295</b>	<b>2,630.663</b>

ZEV = Zero Emission Vehicle

NEVs = Neighborhood Electric Vehicle

NMOG = Non-Methane Organic Gases

TZEV = Transitional Zero Emission Vehicle

AT PZEV = Advanced Technology Partial Zero Emission Vehicle

PZEV = Partial Zero Emission Vehicle

### **Manufacturer Transfers**

Manufacturer may transfer credits between manufacturers and third parties. Below are the ZEV credits transferred between October 1, 2012 and February 20, 2014.

New Jersey ZEV transfers out between October 1, 2012 and September 30, 2013 (g/mi NMOG)		
Transferor	Type of Vehicle	Number of Credits
Tesla	ZEV	151.375
Mitsubishi	ZEV	0.753
GM	NEV	122.500

New Jersey ZEV transfers in between October 1, 2012 and September 30, 2013 (g/mi NMOG)		
Transferor	Type of Vehicle	Number of Credits
FCA	ZEV	59.885
Toyota	ZEV	91.490
GM	ZEV	0.753
Toyota	NEV	122.500

### **Frequently Asked Questions**

#### **What do these credit balances mean?**

All manufacturers subject to the ZEV regulation are in compliance through model year 2013. The positive credit balances represent a successful over compliance with the ZEV regulation. Manufacturers can use these balances to provide flexibility in the timing and production of bringing new clean cars to the market to meet the ZEV requirements in coming years.

#### **How far into the future do these credit balances cover the manufacturers' ZEV requirement?**

Each manufacturer is unique in their strategy of compliance with the ZEV regulation. It is not possible to predict how and when these credit balances will be spent over the coming years due to the complexity and flexibility of the regulation. There are various mechanisms in the ZEV regulation which limit how credits are spent.

#### **How do you calculate a manufacturer's requirement?**

For understanding the calculations involved in the ZEV Regulation, please see the ZEV Tutorial link below.

#### **Why are credit balances in units of grams/mile Non-Methane Organic Gases (g/mile NMOG)?**

When credits are earned they are multiplied by the g/mile NMOG fleet average requirement for the appropriate model year. Please note that in the ZEV regulation g/mi NMOG is used only as index (which decreases over time)—it is the “currency” that

credits are stored in and does not represent actual values of g/mi NMOG. The intent of this multiplier was to reward early production of vehicles.

**How many vehicles have been brought to and operated in New Jersey as a result of the ZEV regulation?**

A total of about 860,000 vehicles including approximately 730 battery electrics, 300 NEVs, 3,900 plug-in electric, 65,000 clean hybrids and 790,000 clean gasoline vehicles. These numbers represent vehicles through model year 2013.

**Contact Us**

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